Composition of Chymoral and Alfopsin

2636. SHRI CHITTA BASU: Will the Minister of HEALTH AND FAMILY WELFARE be pleased to state:

(a) what is the composition of Chymoral and Alfopsin;

(b) what is the indication for which each is used;

(c) since when these medicines are being marketed in the country;

(d) what are the names of the products and what is the price at which each is being sold at present;

(g) whether it is a fact that these products are irrational;

(f) if so, on what ground each was allowed for marketing;

(g) whether it is a fact tha these products were considered for ban by the expert committee; and

(h) if so, when and if not, the reasons therefor?

THE MINISTER OF STATE OF THE MINISTRY OF HEALTH AND FAMILY WELFARE (SHRI RAFIQUE ALAM): (a) Chymoral contains trypsin and chymetrypsin in the ratio of 6:1 Alfapsin contains alfa chymetrypsin.

(b) They are indicated for soft tissue inflammation and edema associated with traumatic injuries and to promote liquefaction of respiratory secretions in patients suffering from asthma, bronchitis, pulmenary diseases and simusitis.

(c) Since 1975 onwards.

(d) The important manufacturers of these drugs are M/s. Walter Bushwell Ltd.; Calcutta M/s. Elders Pharmaceuticals, Bombay; M|s. Lyka Laboratories, Bombay and M/s. Senior Pharmaceuticals, Bombay. The approximate retail price of 10 tablets is about Rs. 22|-.

(e) to (h) The Sub-Committee of experts of the Drugs Consultative Committee had revised formulations containing Chymotrypsin and advised the manufacturers to conduct certain studies of establish the validity of these products. The Committee, however, did not recommend outright banning of these products.

Recommendation of Anomalies Committee on Pay Scales of Assistants

2637. SHRI ANAND PRAKASH GAUTAM: Will the PRIME MINISTER be pleased to refer to answer to Unstarred Questions 2228 and 622 given in the Rajya Sabha on the 14th March and the 2nd May, 1989, respectively, and state:

(a) whether the Anomalies Committee looking into the matter of revision of pay scales of Assistants from Rs. 1400-40-1600-50-2300-EB-60-2600 to Rs. 1640-60-2600-EB-75-2900 has since made any recommendation;

(b) if so, what are the details thereof; and

(c) by when the orders for the implementation of the recommendation are likely to be issued?

THE MINISTER OF STATE IN THE MINISTRY OF PERSONNEL, PUBLIC GRIEVANCES AND PENSIONS AND THE MINISTER OF STATE IN THE MINISTRY OF HOME AFFAIRS (SHRI P. CHIDAMBARAM): (a) The Anomalies Committee have not made any recommendation regarding the revision of pay scales of Assistants.

(b) and (c) Questions do not arise.

Project in Frontier Technology

2638. SHRIMATI VEENA VERMA:
SHRI KAPIL VERMA:

Will the PRIME MINISTER be pleased to state:

(a) which are the main projects in frontier technology which have been sanctioned by the Engineering research council and how many of them have been completed;

(b) whether any project for industrial technological development has been taken up; and

(c) if so, what progress has been made so far in this regard?

THE MINISTER OF STATE IN THE MINISTRY OF SCIENCE AND TECHNOLOGY AND THE MINISTER OF STATE IN THE DEPARTMENTS OF OCEAN DEVELOPMENT, ATOMIC ENERGY, ELECTRONICS AND SPACE (SHRI K. R. NARAYANAN): (a) The main projects in frontier technology relate to; Intermetallics, Quasicrystals, Processed Modelling, Membrane Separation, and Computer Aided Design. Out of the above the following aspects have been completed:

(i) Theoretical studies of structure and stability of titanium aluminides (one of the important intermetallic system) have been done.

(ii) The structure of some of quasicrystalline phases and a few alloy systems which exhibt quasicrystalline phase have been understood and established.

(iii) A computer software package for easy optimisation of process parameters and die design in extrusion and forging of metals to achieve desired set of properties has been developed; and

(iv) A software package for optimum designing of lies for diecasting of aluminium base alloys has been developed.

(b) Yes, Sir. A concerted effort has been made in initiating industrial oriented projects in collaboration with industries and other organisations. Some of the major projects are:

(i) Project on Railway Track Dynamics for studying rail-wheel interaction.

(ii) Thermophysical properties data bank for chemical industries.

(iii) Development of low head microhydro turbines for power generation locally in hilly and remote areas; and

(iv) Setting up of industrial wind tunnel facilities for analysing effect of wind loads on Civil Engineering.

(c) The following milestones have been achieved in these programmes:

(i) *Project on Railway Track Dynamics*: A software has been developed by Indian Institute of Science, Bangalore in collaboration with Research, Development and Standardisation Organisation (RDSO), Lucknow for analysing the contact stresses. Also, a track model has been developed, the validation of which will be completed in another year.

(ii) *Programme of Thermophysical Properties Data Bank of Chemicals*: Six agencies are working together to compile the properties of around 300 chemicals. It is expected that in another year's time two data centres—one at IIT, Bombay and the other at NCL, Pune will be set up.

(iii) *Development of low head microhydro turbines* : Design, development and fabrication of Cross Flow Turbine have been completed. The prototype of 12KW capacity Cross Flow Turbine fabricated has been installed at Kempti Falls, UP, the trials of which will commence shortly.

(iv) Industrial wind tunnel facility has already been set up at Roorkee University. Experimental investigations have been carried out on some of the models of engineering structures like antenna tower and cluster of tall buildings.

Collection of Weather Data by Meterological Stations

2639. SHRIMATI VEENA VERMA:
SHRI KAPIL VERMA:

Will the PRIME MINISTER be pleased to state:

(a) whether the weather data collected by the meteorological stations, particularly by manual methods, for the newly set up super computer for weather fore-